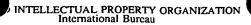
PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:		(1	11) International Publication Number: WO 00/50589
C12N 15/12, C07K 14/47, G01N 33/566, A61K 38/17, C07K 16/28, A61K 39/395, C12N 15/62	A1	(4	13) International Publication Date: 31 August 2000 (31.08.00)
(21) International Application Number: PCT/US (22) International Filing Date: 18 February 2000 ((81) Designated States: AU, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
(30) Priority Data:			Published
60/121,170 22 February 1999 (22.02.99) 60/158,566 8 October 1999 (08.10.99)	τ	JS JS	With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.
(71) Applicant (for all designated States except US): I INSTITUTE FOR CANCER RESEARCH [CH/V Third Avenue, New York, NY 10158 (US).	LUDWI US]; 60	IG 05	
(72) Inventors; and			
(75) Inventors/Applicants (for US only): CHIARI, Rita.	[BE/BE	∃];	
7459, avenue Hippocrate, B-1200 Brussels (BE).	COULI	E	_
Pierre [BE/BE]; 7459, avenue Hippocrate, B-1200 (BE). BOON-FALLEUR, Thierry [BE/BE]; 7459	Brusse	ls	
Hippocrate, B-1200 Brussels (BE).	, aveni	ue	
[(74) Agent: VAN AMSTERDAM, John, R.; Wolf, Gree Sacks, P.C., 600 Atlantic Avenue, Boston, MA 022	enfield 210 (US	& S).	
		Ì	
<i>₽</i>		ı	
(54) Title: TYROSINE KINASE RECEPTOR Enha3 AN	TIGEN	JIC	PEDTIDES

(54) Title: TYROSINE KINASE RECEPTOR EphA3 ANTIGENIC PEPTIDES

Stimulator cells	TNF produced by clone 19 (pg/ml) 0 20 40 60 80
293-EBNA + DRB1 + CliTA + li + cDNA 279 + cDNA 279 + DRB1 + ClITA + li + cDNA 279 + DRB3 + ClITA + li + cDNA 60 + cDNA 60 + DRB1 + ClITA + li + cDNA 60 + DRB3 + ClITA + li	

(57) Abstract

The invention describes HLA class II binding peptides encoded by the EphA3 tumor associated gene, as well as nucleic acids encoding such peptides and antibodies relating thereto. The peptides stimulate the activity and proliferation of CD4*T lymphocytes. Methods and products also are provided for diagnosing and treating conditions characterized by expression of the EphA3 gene.